## **ENVIRONMENTAL CHEMISTS**

Date of Report: 12/03/03 Date Received: 11/14/03

Project: Metro Self Monitor, PO# M92191, F&BI 311124

Date Extracted: 12/01/03 Date Analyzed: 12/01/03

# RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Chromium	Copper	Nickel	$\overline{\mathrm{Zinc}}$
0.77	0.69	0.84	< 0.05
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- 회사, 기계로 급하는 감			
<0.05	< 0.05	< 0.10	< 0.05
		0.77 0.69	0.77 0.69 0.84

## **ENVIRONMENTAL CHEMISTS**

Date of Report: 12/03/03 Date Received: 11/14/03

Project: Metro Self Monitor, PO# M92191, F&BI 311124

# QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 311246-01 (Duplicate)

		ala antara		Relative	
	Reporting	Sample	Duplicat	e Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.21	0.21	0	0-20
Copper	mg/L (ppm)	0.16	0.16	0	0-20
Nickel	mg/L (ppm)	0.15	0.15	0	0-20
Zinc	mg/L (ppm)	0.05	< 0.05	nm	0-20

Laboratory Code: 311246-01 (Matrix Spike)

	Reporting	Spik	e Sample	e % Reco	very Acceptanc	e
_Analyte	Units	Leve	el Result	MS	Criteria	
Chromium	mg/L (ppm)	2	0.21	90	80-120	2
Copper	mg/L (ppm)	2	0.16	86	80-120	
Nickel	mg/L (ppm)	4	0.15	85	80-120	
Zine	mg/L (ppm)	2	0.05	91	80-120	

Laboratory Code: Laboratory Control Sample

		Reporting	Spike %	Recov	ery % Recov	ery A	eceptane	e RPD
	Analyte	Units	Level	LCS	LCSD	)	Criteria	(Limit 20)
e ska Billion	Chromium	mg/L (ppm)	2	105	95		80-120	10
	Copper	mg/L (ppm)	2	105	94		80-120	11
	Nickel	mg/L (ppm)	4	106	97		80-120	9
	Zinc	mg/L (ppm)	2	107	98		80-120	9

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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Sand Report To	thomas	.)		SAMPLE	S (signature)										AROUND		٦
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Phone # 206-382-8779											•		Retur Will c		ith instru	actions	
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Sample ID	Lab ID	Date	Time	Sample Ty	/pe # of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B VOCs by 8260	SVOCs by 8270	HFS	86.64 MEZ-				И	Votes	
M 52191 .	01	11/17/03	7/:35	Azo	1					7							
Friedman & Bruya, Inc. 3012 16th Avenue West	Relinquished by	SIGNATU	RE		PRINT The	NAN PSO					COMI Dec			1	DATE 1/14/65	TIME	
Seattle, WA 98119-2029  Ph. (206) 285-8282	Received by:  Relinquished by		us	_   \	Than F	ha	n			Friedr	nan a	\$ B	niya	11	14 03	11:40	$\dashv$
Fax (206) 283-5044	Received by:		···														7

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### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 3, 2003

### DUPLICATE COPY

## **INVOICE # 03ACU1203-4**

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M92191, F&BI 311124 - Results of testing requested by Gerry Thompson for material submitted on November 14, 2003.

FEDERAL TAX ID \*(b) (6)

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 3, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 14, 2003 from the Metro Self Monitor, PO# M92191, F&BI 311124 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow

Charlene Morrow

Chemist

Enclosures ACU1203R.DOC